

FIG. 1

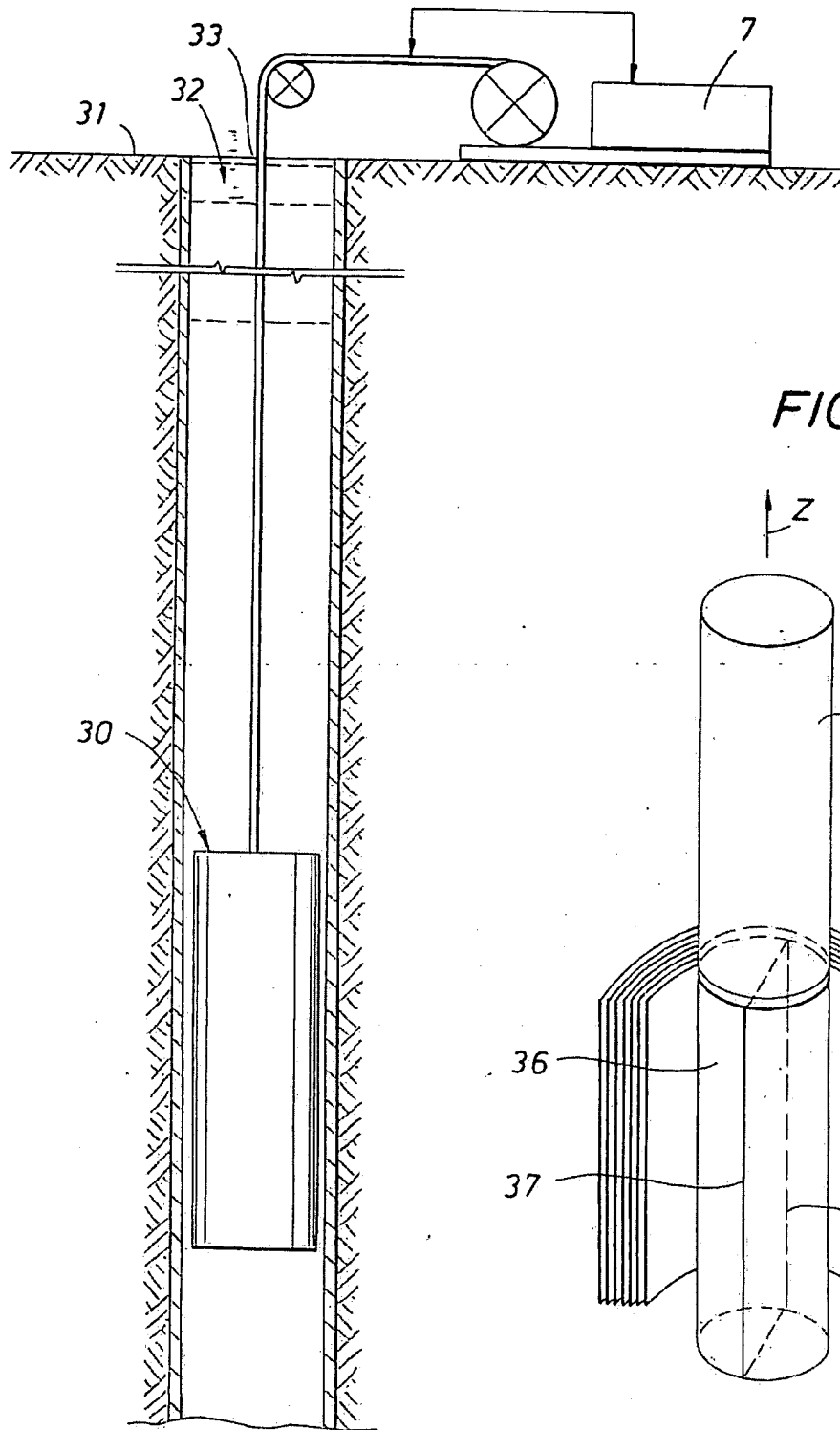
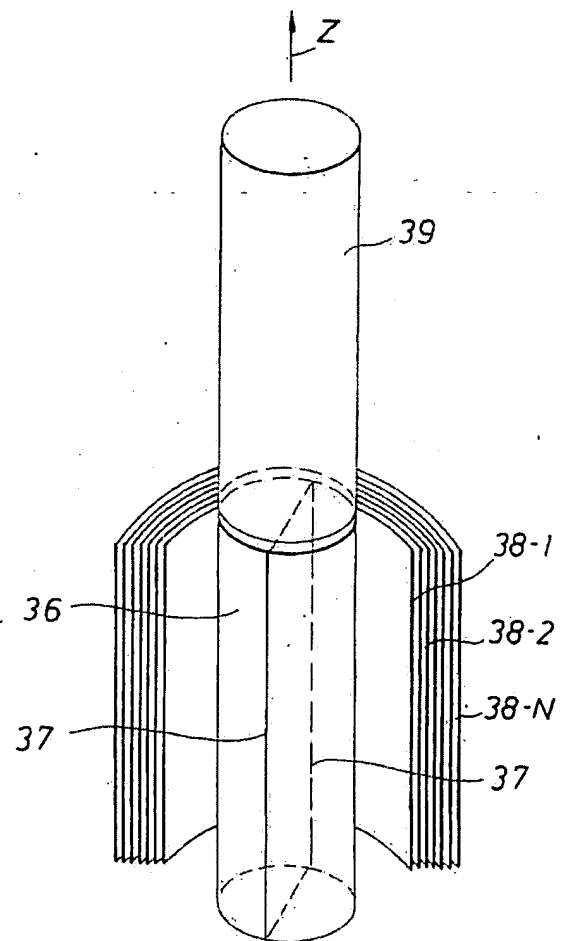


FIG. 2



# Flow Chart for Multi-Dimensional NMR Inversion

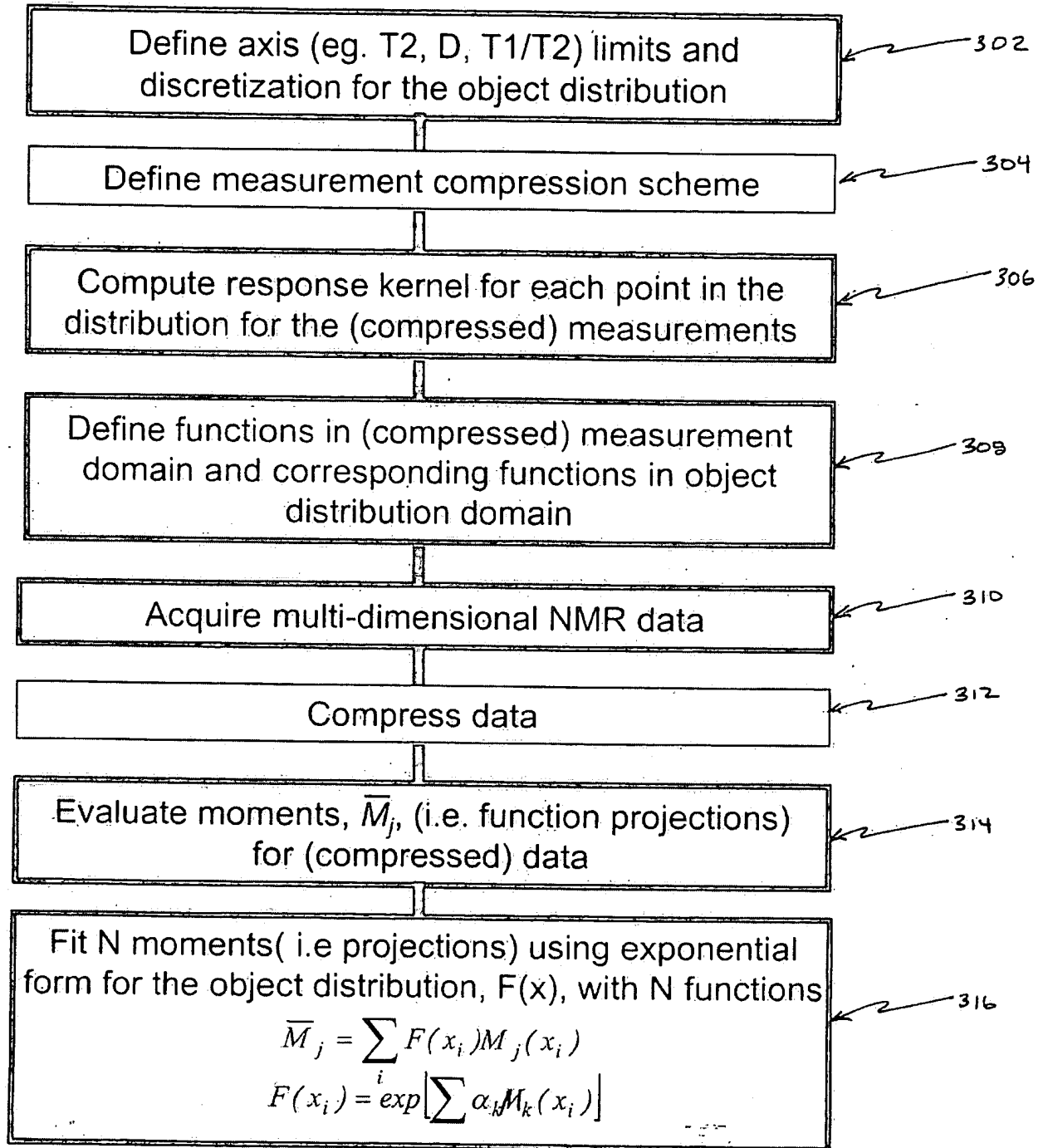


Figure 3

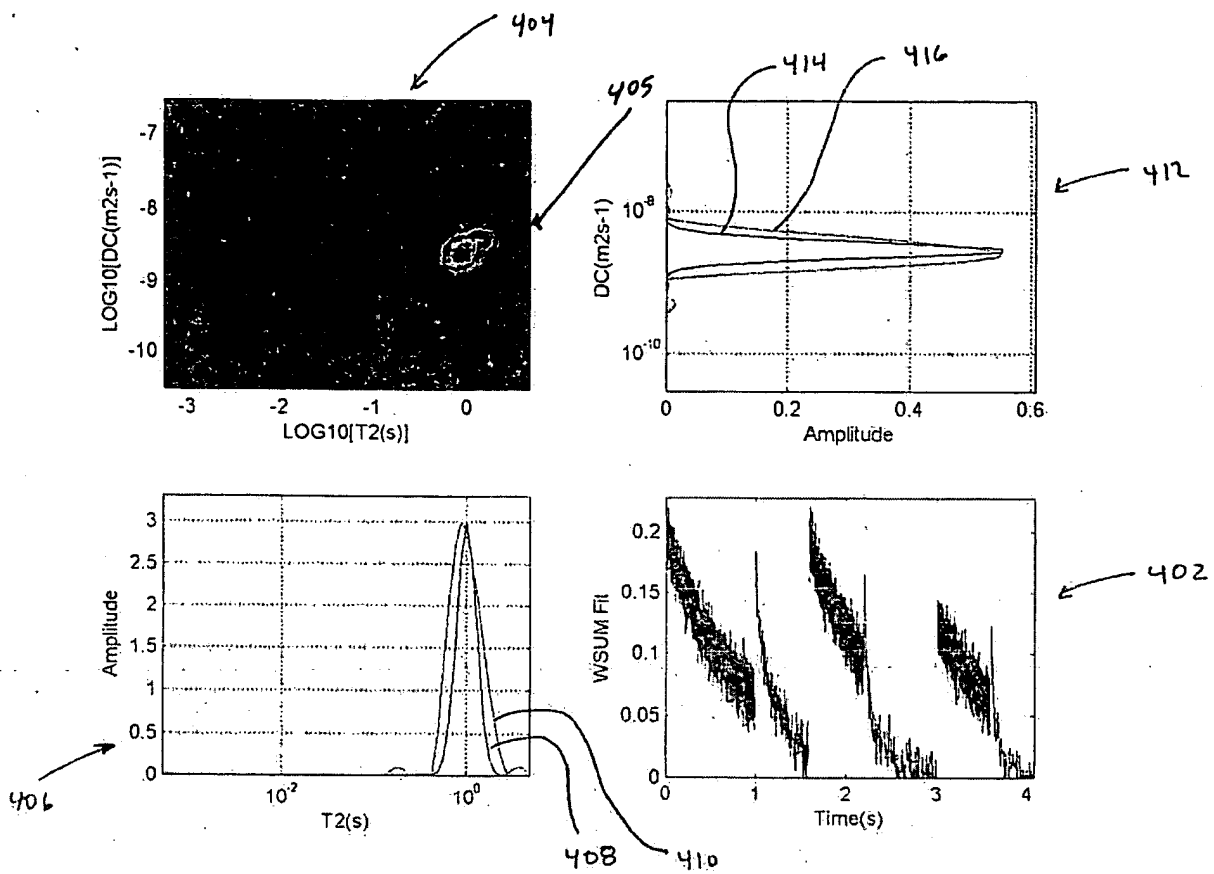


Figure 4

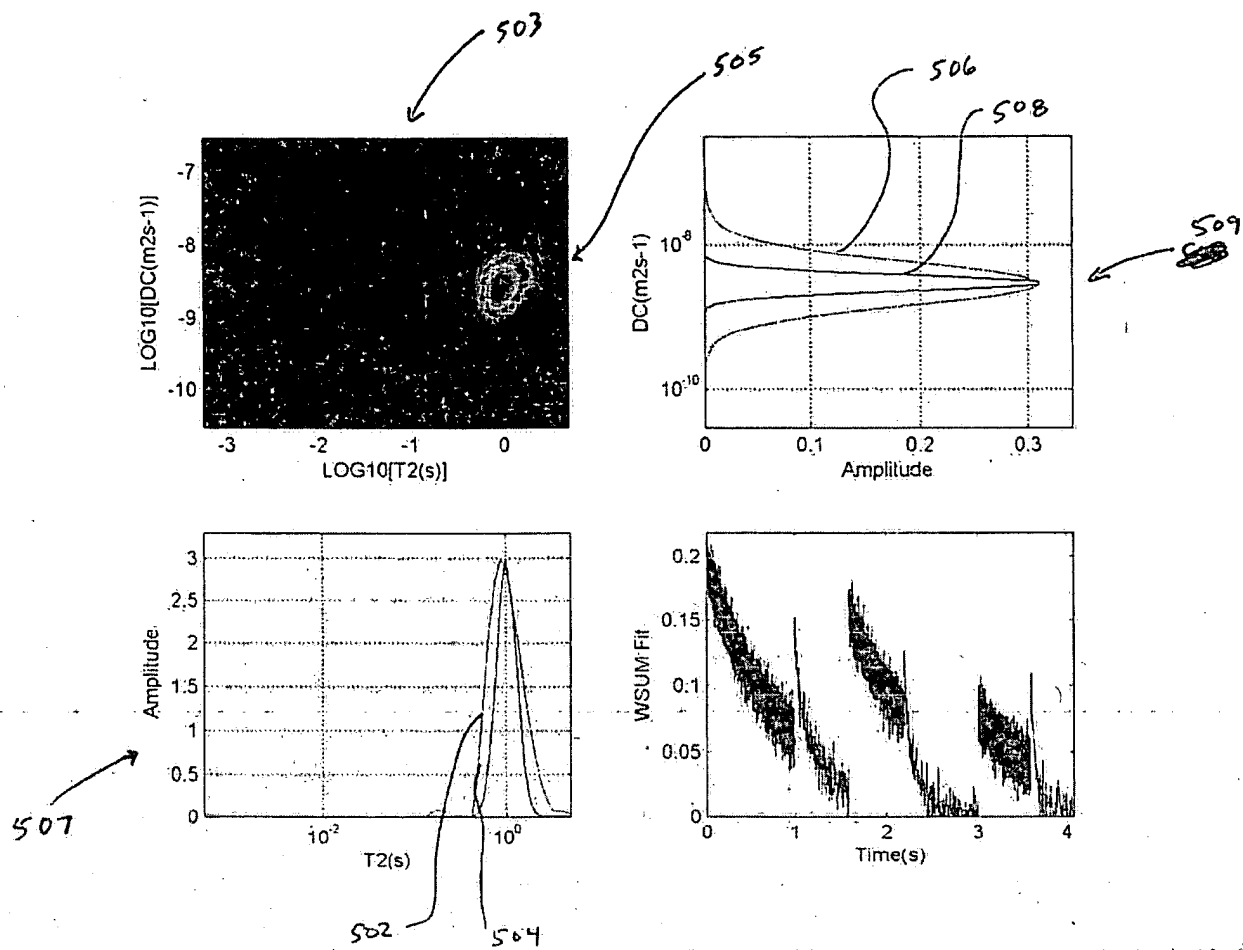
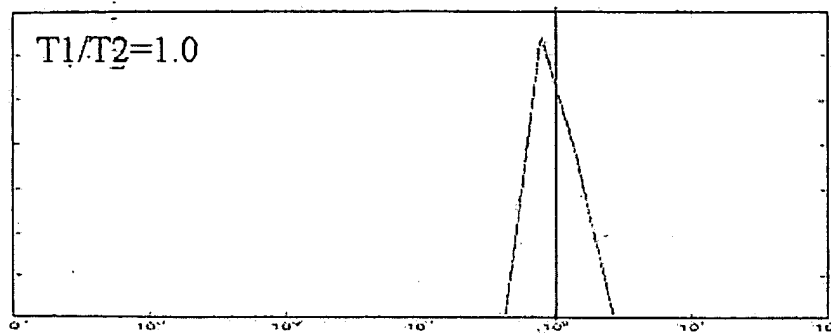
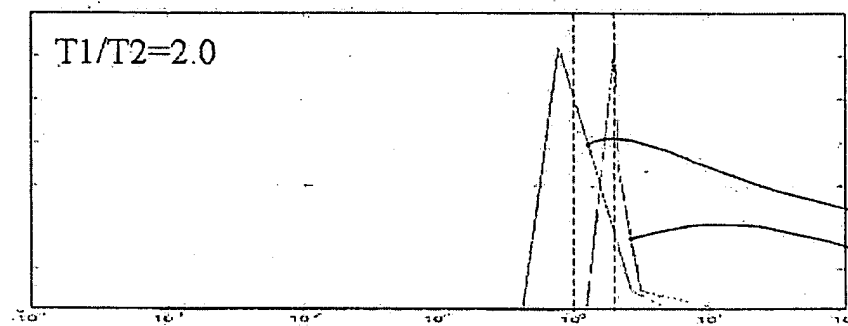


Figure 5



602



604

606

608

$T_1, T_2$  (s)

Figure 6

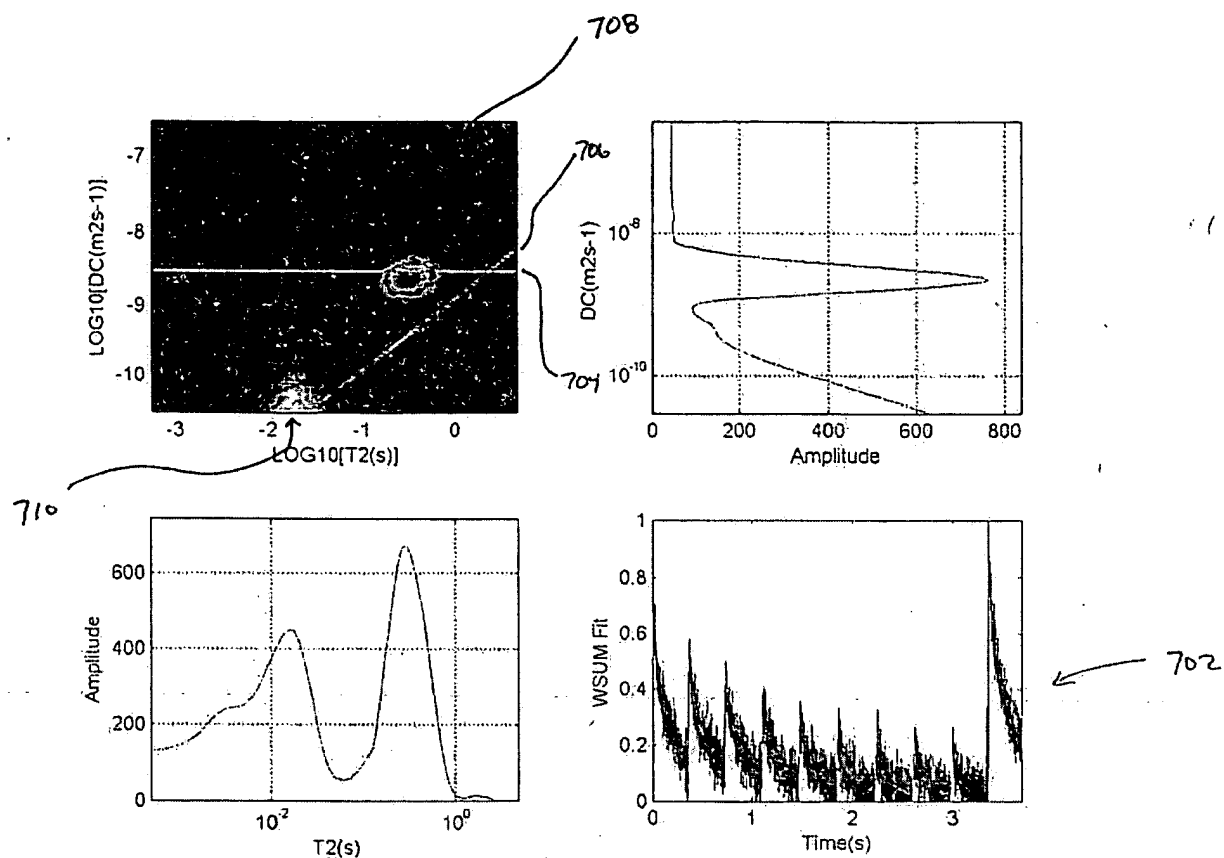


Figure 13. MRX Diffusion Editing Example (Indiana RS2000). Results of 2-dimensional inversion of diffusion editing data acquired by MRX in oil-bearing sandstone formation. Top left is the  $T_2$ - $D$  map. Overlaying are lines for water (horizontal line) and dead oil (faint diagonal line) responses. Lower left is the integrated  $T_2$  distribution (red) compared with the input distribution (black). Upper right is the integrated  $D$  distribution (red) compared with the input distribution (black). Lower right shows the input echo data (black). Also shown (faint red lines) are the normalized window-sum fits (red) plotted on the same time scale.

Figure 7